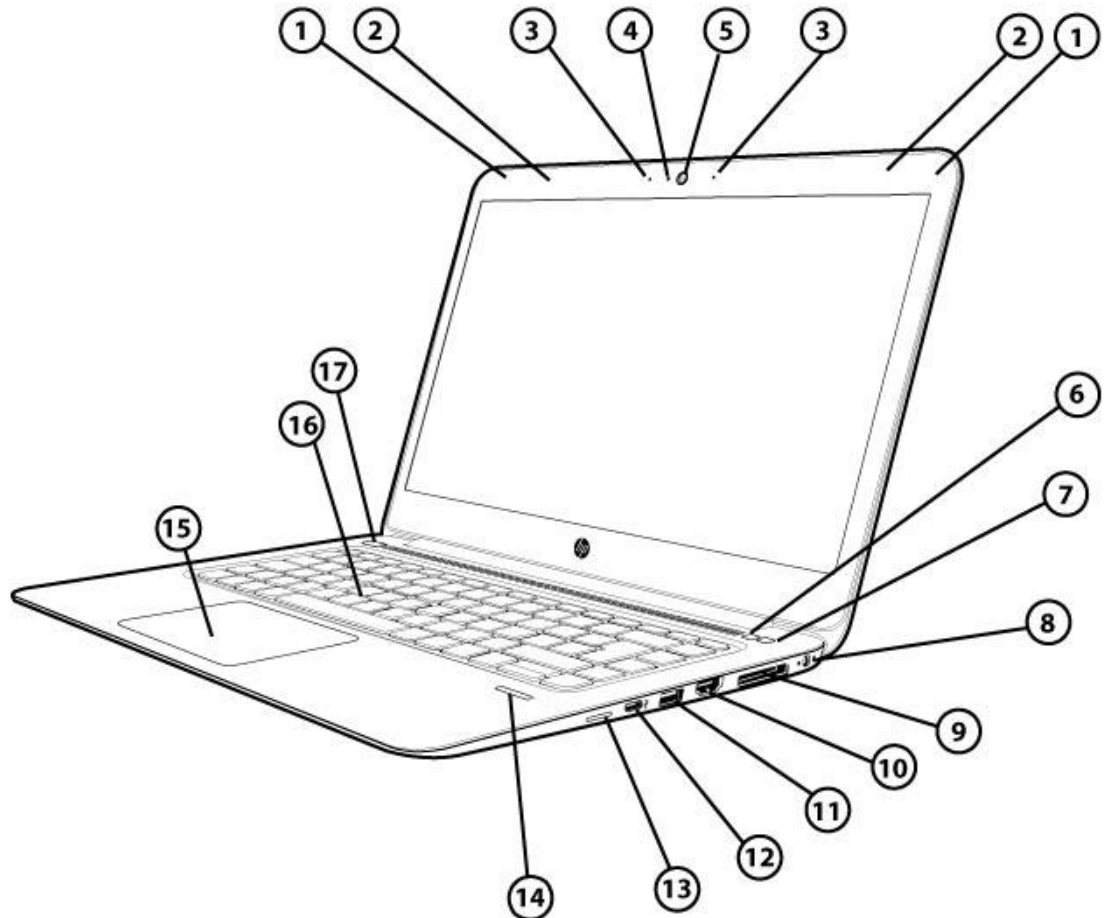


Overview

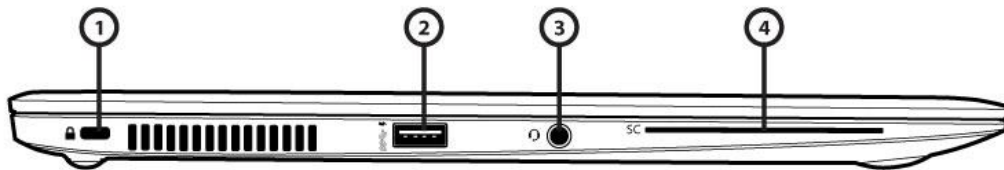
HP EliteBook 1040 G3 Notebook PC



Front Side View

- | | |
|--|--|
| 1. WLAN antennas (2) | 10. HDMI 1.4 port |
| 2. WWAN antennas (2) (select models) | 11. USB charging port |
| 3. Internal microphones (2) | 12. USB-Type C™ charging port |
| 4. Webcam LED (select models) | 13. WWAN SIM with plug (Plug is removable only for units with optional WWAN) |
| 5. Optional 720p HD webcam | 14. Fingerprint reader |
| 6. Wireless on/off button with LED indicator | 15. ClickPad™ |
| 7. Speaker mute button with LED indicator | 16. Backlit keys |
| 8. Power connector | 17. Power button |
| 9. Docking connector | |

Overview



Side View

1. Security lock slot
2. USB 3.0 charging port
3. Headphone/microphone combo
4. Smart card reader

At A Glance

- Weight starting at 3.15 lbs (1.43 kg) for Non-Touch or 3.40 lbs (1.54 kg) for Touch
- Height starting at of 15.8 mm (16.5 mm with Touchscreen)
- CNC Aluminum chassis with diamond cut design, wear-resistant “meteorite” HP DuraFinish, HP DisplaySafe frame, HP DuraKeys high durability keyboard finish, aluminum alloy keyboard deck, precision aluminum drop hinge
- Choice of 6th Generation Intel® Core™ i5, i7 Processors with integrated Intel® HD Graphics
- Supports wireless LAN and wireless WAN options for connectivity on the go
- Integrated docking connector and optional HP Ultralim Docking Station provide quick transition to a desktop setting
- Enhanced security features including HP Sure Start self-healing BIOS, HP Client Security, HP BIOSphere, and hardware security options like an HP Fingerprint Reader, optional VPro and integrated smart card reader
- Full-sized spill-resistant backlit keyboard with drain keeps you productive in low-light settings
- New Clickpad for both basic and advanced touch gestures
- 14.0” diagonal QHD (2560 x 1440) Touch, QHD (2560 x 1440) or FHD (1920 x1080) Non-Touch Displays
- HP 6-cell (45.6 WHr) Long Life battery for battery life up to 11 hours and 30 minutes
- Up to 512 GB Solid State Drives
- Up to 16 GB total system memory
- 720p HD webcam with dual-microphone array for video conferencing
- Audio by Bang & Olufsen for precise sound
- Windows 10, Windows 7 Professional 64, FreeDOS 2.0
- Passed 12 MIL STD tests¹

1. Testing was not intended to demonstrate fitness for Department of Defense contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

Overview

NOTE: See important legal disclosures for all listed specs in their respective features sections.

Technical Specifications

PRODUCT NAME

HP EliteBook 1040 G3 Notebook PC

OPERATING SYSTEM

Preinstalled

- Windows 10 Pro 64¹
- Windows 10 Home 64¹
- Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64)²
- Windows 7 Professional 64³
- FreeDOS 2.0

Web-only Support

- Windows 10 Enterprise¹
- Windows 8.1 Enterprise 64³
- Windows 7 Professional 32³
- Windows 7 Enterprise 32³
- Windows 7 Enterprise 64³

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.
2. This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data
3. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. See <http://www.microsoft.com>.

PROCESSOR

Intel® Core™ i7-6600U with Intel HD Graphics 520 (2.6 GHz, up to 3.4 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores)¹

Intel® Core™ i7-6500U with Intel HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores)¹

Intel® Core™ i5-6300U with Intel HD Graphics 520 (2.4 GHz, up to 3 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores)¹

Intel® Core™ i5-6200U with Intel HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores)¹

1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

CHIPSET

Integrated with processor

Technical Specifications

GRAPHICS

Integrated:

Intel® HD Graphics 520

DISPLAY

Non-Touch

- 14.0" diagonal LED-backlit FHD¹ Anti-glare SVA (1920 x 1080), 300 nits
- 14.0" diagonal LED-backlit FHD¹ Anti-glare SVA (1920 x 1080), 300 nits with WWAN
- 14.0" diagonal LED-backlit FHD¹ Anti-glare SVA (1920 x 1080), 300 nits with camera
- 14.0" diagonal LED-backlit FHD¹ Anti-glare SVA (1920 x 1080), 300 nits with camera and WWAN

- 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits
- 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with WWAN
- 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with camera
- 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with camera and WWAN

HP Sure View

Integrated Privacy Screen

14.0" diagonal LED backlight FHD Slim eDP SVA Anti-glare (1920 x 1080)

Touch²

- 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with camera
- 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with camera and WWAN

HP Sure View

Integrated Privacy Screen

- 14.0" diagonal LED backlight FHD Slim eDP SVA (1920 x 1080) Touch
- 14.0" diagonal LED backlight FHD Slim eDP SVA (1920 x 1080) Touch with camera

Note: Touch panel has chemically-strengthened Corning® Gorilla® Glass 3 top cover

1. HD content required to view HD images.

External

Up to 32-bit per pixel color depth

HDMI

HDMI 1.4 (Cable not included)

Docking Station	Number of Displays supported
Optional UltraSlim Docking Station ¹	3

1. Sold separately or as an optional feature.

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings. HDMI1.4 up to “3840×2160p@24 Hz/25 Hz/30Hz or 4096×2160p@24 Hz” or Displayport1.2 up to “4096X2304 60Hz”. The HDMI is via the HDMI port on the unit and the Displayport is through the dock.

Technical Specifications

STORAGE AND DRIVES

Primary Storage

Solid State Drives

Supports M.2 (NGFF) 2280 Solid State Drive
128 GB SATA-3 TLC SSD
180 GB SATA-3 MLC SSD
180 GB SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
240 GB SATA-3 MLC SSD
256 GB PCIe-3x4 NVMe SSD
256 GB SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
256 GB SATA-3 TLC SSD
512 GB SATA-3 TLC SSD

1. For solid state drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and up to 30 GB (for Windows 8.1 and 10) of system disk is reserved for the system recovery software.

NOTE: Internal component upgrades such as storage are not available after factory configuration.

MEMORY

Standard

DDR4 PC4 – 2133 (Transfer rates up to 2133 MT/s)
Memory soldered down (No sockets)
Supports Dual Channel Memory

Standard memory

8192 MB Total System Memory ((512 M x 16, Qty 8)
16384 MB Total System Memory (512 M x 16 x 2, Qty 8)

Maximum

16 GB Total System¹

NOTE: Internal component upgrades to memory are not available after factory configuration.

1. Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)

HP Lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module^{1,2}
HP 3110 HSPA+ Mobile Broadband Module^{1,2}

NOTE: WWAN modules are only available if preconfigured. WWAN connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.
Not available with Ubuntu.

Wireless LAN (WLAN)

Intel® Dual Band Wireless AC-8260 802.11 a/b/g/n ac (2x2) Bluetooth® 4.2 Combo^{1,2}

1. Wireless access point and Internet service is required and is not included.
Availability of public wireless access points limited.

Technical Specifications

2. Sold separately or as an optional feature.

Communications

Intel® Ethernet Connection I218LM 10/100/1000 Ethernet, with iAMT
Optional Near Field Communication (NFC) with Secure Element ^{2,3}

1. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
2. NFC ships enabled by default on Windows 8.1 and is disabled by default on Windows 7.
3. Sold separately or as an option.

AUDIO/WEBCAM

Audio

Audio by Bang & Olufsen
Two integrated stereo speakers
Integrated dual-array microphone
Button for speaker mute; function keys for volume up and down
Headphone/Microphone combo port
Intel® Smart Sound Technology (Windows 8.1 and Windows 10)

1. Works only with Windows.

Webcam

720p HD² webcam

1. HD format (widescreen)
2. Supports videoconferencing and still image capture
3. High quality fixed focus lens
4. Video capture at various resolutions up to 1280 x 720 resolution (720p) and up to 30fps
5. M-JPEG compression supports higher frame rates for video capture and videoconferencing
6. Improved low light sensitivity
7. Improved dynamic range

1. Sold separately as an optional feature.
2. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Spill-resistant with drain
Backlit
HP Dura Keys

Buttons and Function Keys

Discrete buttons provide easy access to the following features:

F1 - Sleep
F2 - Blank
F3 - Backlit Keyboard
F4 - Display Switching
F5 - Brightness Down
F6 - Brightness Up

Technical Specifications

F7 - Blank
F8 - Volume Down
F9 - Volume Up
F10 - Mic Mute
F11 - Blank
F12 - Num Lock

TouchPad

ClickPad™
Glass with chemical etched surface
Taps enabled as default

Gestures enabled by default

2 Finger Scrolling
2 Finger Zoom (Pinch)

SOFTWARE AND SECURITY

Preinstalled with Windows Operating System

BIOS

HP BIOSphere¹
HP Sure Start with Dynamic Protection
HP DriveLock | HP Automatic DriveLock
HP BIOS Protection²
BIOS Update via Network
HP Sparekey¹⁵
Master Boot Record Security
Power On Authentication
Pre-Boot Security
Secure Erase³
Hybrid Boot
Measure Boot
Secure Boot
Pre-boot Authentication

Multi Media

Cyberlink Power DVD, BD
Cyberlink YouCam BE (Windows 7 only)

Communication

HP GPS and Location (Windows 7 only)⁵
HP Connection Manager with support for HP Mobile Connect Pro (Windows 7 only)⁶
HP Mobile Connect Pro (Windows 8.1 and Windows 10 only)⁶
Intel® Wireless Display (WiDi) Software for Windows⁷
Native Miracast Support⁸

HP Value Add Software

HP ePrint Driver⁹

Technical Specifications

HP Hotkey Support
HP Recovery Manager
HP Recovery Disc Creator
HP Registration App (Windows 8.1 only)
HP Support Assistant
HP Noise Reduction Software

3rd Party

Foxit PhantomPDF Express for HP

Microsoft Products

Buy Office
Bing Search
Skype for business certified ¹⁰

Manageability

HP Driver Packs¹¹
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)¹¹
HP BIOS Config Utility (BCU)¹¹
HP Client Catalog¹¹
HP CIK for Microsoft SCCM¹¹
LANDESK Management¹²
HP Image Assistant¹¹

For more information on HP Client Management Solutions refer to: <http://www.hp.com/go/clientmanagement>.

Client Security Software

HP Client Security

- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Fingerprint Sensor
- HP Password Manager
- Absolute Persistence Module⁴
- Power On Authentication

Microsoft Security Essentials¹³

Microsoft Defender¹³

Security

Trusted Platform Module (TPM) 1.2 Embedded Security Chip (Common Criteria EAL4+ Certified or FIPS 140-2). Field upgradeable to TPM 2.0¹⁴

Security lock slot (Cable not included)

Fingerprint Reader

Integrated Smart Card Reader

For more information on HP Client Security Software Suite, refer to <http://www.hp.com/go/clientsecurity>.

Technical Specifications

1. Available only on business PCs with HP BIOS.
2. May require a manual recovery step if all copies of BIOS are compromised or deleted
3. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
4. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
5. GPS access requires an unobstructed path to multiple satellites. Performance may be affected if/when used inside of buildings, bridges or heavily congested metropolitan areas. Requires separately purchased GPS navigation software available from multiple GPS applications.
6. HP Mobile Connect Pro is only available on preconfigured devices with WWAN. For geographic availability refer to <http://www.hp.com/go/mobileconnect>
7. Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, TV or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, TV or computer monitor via a standard HDMI cable, also sold separately.
8. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>
9. Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see <http://www.hp.com/go/eprintcenter>). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
10. Skype is not offered in China.
11. Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>
12. Subscription required.
13. Opt in and internet connection required for updates.
14. This product ships with TPM 1.2 with option to upgrade to TPM 2.0. Upgrade utility is expected to be available by the second half of 2016 via HP Customer Support.
15. Requires initial user set up.

POWER

Power Supply/AC Adapters

- 45W 2-prong AC Adapter
- 45W Smart AC Adapter
- 65W Smart EM AC Adapter
- 65W Slim Travel AC Adapter

Power cord included is 3.2 ft /1 m long.
Optional: 1.8 m long power cord (5.9 ft)

Primary Battery

HP 6-Cell (45.6 Whr) polymer long life battery

Battery Life

Up to 11 hours and 30 minutes (With FHD display)¹
Up to 10 hours (With QHD display)¹

System Standby Time

Up to TBD

Technical Specifications

1. Windows 10/MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight

Starting at 3.15 lbs (1.43 kg) for Non-Touch¹

Starting at 3.40 lbs (1.54 kg) for Touch¹

1. Weight varies by configuration and components.

Dimensions (w x d x h)

Non-Touch

13.27 x 9.23 x 0.62 in (Front)

33.7 x 23.45 x 1.58 cm (Front)

Touch

13.27 x 9.23 x 0.65 in (Front)

33.7 x 23.45 x 1.65 cm (Front)

PORTS/CONNECTORS

Ports

Input / Output

(2) USB 3.0 charging port

(1) USB-Type C™ charging port (15W)

(1) Docking connector

(1) HDMI 1.4

(1) Headphone/microphone combo

(1) Multi-Pin AC port (4.5mm)

Note: Cables not included.

SERVICE AND SUPPORT

HP Services offers a 1-year limited warranty. Batteries have a default one year limited warranty same as the platform. On-site service and extended coverage is also available. HP Care Pack Services^{1,2} are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.

1. Sold separately or as an optional feature.
2. Service levels and response times for HP Care Services may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc

Technical Specifications

System Unit

TBD

Displays

14.0" diagonal LED-backlit FHD Anti-glare SVA (1920 x 1080)	Active Area (W x H)	308.851 (H) x 173.729 (V) mm
	Diagonal Size	14.0"
	Surface Treatment	Anti-Glare
	Contrast Ratio	500:1 (typical)
	Refresh Rate	60Hz
	Brightness	300nit (typical, @5point)
	Pixel Resolution	1920 x 1080
	Backlight	WLED
	PPI	157
	Viewing Angle	SVA 45/45/20/45
14.0" diagonal LED-backlit QHD UWVA (2560 x 1440)	Active Area (W x H)	309.504 (H) x 174.096 (V) mm
	Diagonal Size	14.0"
	Surface Treatment	Anti-Glare
	Contrast Ratio	600:1 (typical)
	Refresh Rate	60Hz
	Brightness	340nit (typical, @5point)
	Pixel Resolution	2560 x 1440
	Backlight	WLED
	PPI	210
	Viewing Angle	UWVA 85/85/85/85
14.0" diagonal LED backlight FHD Slim eDP SVA Anti-glare (1920 x 1080) Integrated Privacy Screen	Outline Dimensions (W x H x D)	320.9 x 205.6 (max) x 3.6(max) mm
	Active Area	309.14x173.89
	Weight	<305 max
	Diagonal Size	14"
	Surface Treatment	AG
	Contrast Ratio	200:1 (typ) - AG
	Refresh Rate	60Hz
	Response time	16ms typ.
	Pixel Per Inch (PPI)	157
	Brightness	Privacy 85nits (system) Sharing 275nits (system)
	Pixel Resolution	Format
	Interface	Configuration
	LCD Mode	eDP 1.2 (2 lane)
	Viewing Angle	TN
		Sharing 45/45/15/30 (CR>10) Privacy 40/40/15/30 (CR>10)

Technical Specifications

14.0" diagonal LED-backlit QHD UWVA (2560 x 1440), 340 nits with camera- Touch	Outline Dimensions (W x H x D)	331.35 x 217.53 x 3.8 mm max. (w/LCD)
	Active Area	309.504 (H) x 174.096 (V) mm
	Weight	360g max (w/LCD)
	Diagonal Size	14.0"
	Touch enabled	Yes
	Contrast Ratio	600:1 (typical)
	Refresh Rate	60Hz
	Brightness	340nit (typical, @5point)
	Pixel Resolution	2560 x 1440
	Interface	eDP 1.3+PSR (4 lane)
	LCD Mode	IPS
	PPI	210
	Viewing Angle	UWVA 85/85/85/85

14.0" diagonal LED backlight FHD Slim eDP SVA (1920 x 1080) Touch Integrated Privacy Screen	Outline Dimensions (W x H x D)	320.9 x 205.6 (max) x 3.6(max) mm
	Active Area	309.14x173.89
	Weight	<305 max
	Diagonal Size	14"
	Contrast Ratio	200:1 (typ)
	Refresh Rate	60Hz
	Response time	16ms typ.
	Pixel Per Inch (PPI)	157
	Brightness	Privacy 85nits (system) Sharing 275nits (system)
	Pixel Resolution	Format 1920 x 1080 (FHD) Configuration RGB Stripe
	Interface	eDP 1.2 (2 lane)
	LCD Mode	TN
	Viewing Angle	Sharing 45/45/15/30 (CR>10) Privacy 40/40/15/30 (CR>10)

STORAGE AND DRIVES

128 GB M2 2280 SATA-3 TLC SSD	Drive Weight	0.019lb ~ 0.022lb
	Capacity	128 GB
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	ATA-8, SATA 3.0
	Performance	Maximum Sequential Read Maximum Sequential Write

Technical Specifications

		Up to 540 MB/s	Up to 300 MB/s	
	Logical Blocks	250069680		
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]		
	Features	DIPM; TRIM; DEVSLP		
	Security Features	ATA security		
180 GB M2 2280 SATA-3 MLC SSD	Drive Weight	0.022 lb (<10 g)		
	Capacity	180 GB		
	Height	0.09 in (2.23 mm)		
	Width	0.87 in (22 mm)		
	Interface	ATA-8, SATA 3.0, ACS-3, SATA 3.2		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 540 MB/s	UP to 490 MB/s	
		Logical Blocks	351651888	
		Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
		Features	DIPM; TRIM; DEVSLP	
	Security Features	ATA Security		
180 GB M2 2280 SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD	Drive Weight	0.022 lb (<10 g)		
	Capacity	180 GB		
	Height	0.09 in (2.23 mm)		
	Width	0.87 in (22 mm)		
	Interface	ATA-8, SATA 3.0, ACS-3, SATA 3.2		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 540 MB/s	UP to 490 MB/s	
		Logical Blocks	351651888	
		Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
		Security Features	ATA Security, TCG OPAL 2.x	
240 GB M2 2280 SATA-3 MLC SSD	Drive Weight	0.022 lb (<10 g)		
	Capacity	240 GB		
	Height	0.14 in (3.58 mm)		
	Width	0.87 in (22 mm)		
	Interface	ACS-3, SATA 3.2		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 540 MB/s	UP to 490 MB/s	
		Logical Blocks	468862128	
		Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
		Features	DIPM; TRIM; DEVSLP	
	Security Features	ATA Security		

Technical Specifications

256 GB M2 2280 PCIe-3x4 NVMe SSD	Drive Weight	0.022 lb. (<10 g)		
	Capacity	256 GB		
	Height	0.09 in (23mm)		
	Width	0.87 in (22.1mm)		
	Interface	PCIe GEN3X4		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 2260 MB/s	Up to 1260 MB/s	
	Logical Blocks	500,118,192		
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]		
	Features	ATA Security; TRIM; L1.2		
256 GB M2 2280 SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD	Drive Weight	0.02 lb (<10 g)		
	Capacity	256 GB		
	Height	0.14 in (3.58 mm) ~ 0.09 in (2.23 mm)		
	Width	0.87 in (22 mm)		
	Interface	ATA-8, SATA 3.0		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 540 MB/s	UP to 460 MB/s	
	Logical Blocks	500,118,192		
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]		
	Features	DIPM; TRIM; DEVSLP		
Security Features	ATA Security; TCG Opal 2.0			
256 GB M2 2280 SATA-3 TLC SSD	Drive Weight	0.019 lb (8.5 g) ~ 0.022 lb (10 g)		
	Capacity	256 GB		
	Height	0.09 in (2.3 mm)		
	Width	0.87 in (22 mm)		
	Interface	ATA-8, SATA 3.0		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 540 MB/s	Up to 455 MB/s	
	Logical Blocks	500118192		
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]		
	Features	DIPM; TRIM; DEVSLP		
Security Features	ATA Security			
512 GB M2 2280 SATA-3 TLC SSD	Drive Weight	0.019 lb (8.5 g) ~ 0.02 lb (10 g)		
	Capacity	512 GB		
	Height	0.09 in (2.3 mm)		
	Width	0.87 in (22 mm)		
	Interface	ATA-8, SATA 3.0		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		Up to 540 MB/s	UP to 500 MB/s	
	Logical Blocks	1000215216		

Technical Specifications

Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	DIPM; TRIM; DEVSLP
Security Features	ATA Security

NETWORKING/COMMUNICATIONS

HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module

Technology/Operating bands	LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 800 (Band 20), 700 (Band 28). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz EV-DO: 850 (BC0), 1900 (BC1) MHz (Only work with Verizon network) E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8) MHz
Wireless protocol standards	3GPP Release 10 LTE Specification CAT.4, 20MHz BW WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification 1xEVDO Release 0, A and B. E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4 and MSC1 - MSC9
GPS	Standalone, A-GPS (MS-A, MS-B and XTRA)
GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz
Maximum data rates	LTE: 150 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload) CDMA 1xRTT: 153.6 kbps (Download), 153.6 kbps (Upload) EVDO Rel.A: 3.1 Mbps (Download), 1.8 Mbps (Upload) EVDO Rel.B: 14.7 Mbps (Download), 5.4Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps(Download), 85.6 kbps (Upload)
Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm 1xRTT/EVDO: 24dBm E-GPRS 1900/1800: 26 dBm E-GPRS 900/850: 27 dBm GPRS 1900/1800: 29.5 dBm GPRS 900/850: 32.5 dBm
Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average) 1xRTT/EVDO: 1,000 mA (peak); 700 mA (average) E-GPRS: 2,800 mA (peak); 500 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	6.2 g
Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds

Technical Specifications

will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

	HP hs3110 HSPA+ Intel® Mobile Broadband Module*
Technology/Operating bands	HSPA+: 2100 (Band 1), 1900 (Band 2), 1700 (Band 4), 850 (Band 5), 900 (Band 8) MHz E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 MHz (Band 5), 900 (Band 8) MHz
Wireless protocol standards	WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification E-GPRS: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9
GPS	Standalone, A-GPS
GPS bands	1575.42 MHz ± 1.023 MHz
Maximum data rates	HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload) E-GPRS: 296 kbps (Download), 236.8 kbps (Upload) GPRS: 107 kbps (Download), 85.6 kbps (Upload)
Maximum output power	HSPA+: 24 dBm E-GPRS 1800/1900: 26 dBm E-GPRS 850/900: 27 dBm GPRS 1800/1900: 30 dBm GPRS 850/900: 33 dBm
Maximum power consumption	HSPA+: 1,100 mA (peak); 800 mA (average) E-GPRS: 2,800 mA (peak); 700 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.

Intel® Dual Band Wireless AC-8260 802.11 a/b/g/n ac (2x2) Bluetooth® 4.2 Combo

Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n <ul style="list-style-type: none"> • 2.402 – 2.482 GHz <p>Note: The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.</p> 802.11a/n <ul style="list-style-type: none"> • 4.9 – 4.95 GHz (Japan)

Technical Specifications

- 5.15 – 5.25 GHz
 - 5.25 – 5.35 GHz
 - 5.47 – 5.725 GHz
 - 5.825 – 5.850 GHz
- Note: Indonesia no support this band)

Data Rates

- 802.11b: 1, 2, 5.5, 11 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)
- 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)

Modulation

Direct Sequence Spread Spectrum
BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security¹

- IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
- AES-CCMP: 128 bit in hardware
- 802.1x authentication
- WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
- WPA2 certification
- IEEE 802.11i
- Cisco Certified Extensions, all versions through CCX4 and CCX Lite
- WAPI

Network Architecture Models

Ad-hoc (Peer to Peer)
Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points

Output Power²

- 802.11b : +16dBm minimum
- 802.11g : +14dBm minimum
- 802.11a : +14dBm minimum
- 802.11n HT20(2.4GHz) : +14dBm minimum
- 802.11n HT40(2.4GHz) : +12dBm minimum
- 802.11n HT20(5GHz) : +14dBm minimum
- 802.11n HT40(5GHz) : +12dBm minimum

Power Consumption

Transmit: 2.0 W (max)
Receive: 1.6 W (max)
Idle mode (PSP): 180 mW (WLAN Associated)
Idle mode: 50 mW (WLAN unassociated)
Connect Standby: 10 mW (WLAN+BT)
Radio disabled: 5 mW

Power Management

ACPI and PCI Express compliant power management

Receiver Sensitivity³

802.11 compliant power saving mode
802.11b, 1Mbps : -94dBm maximum
802.11b, 11Mbps : -86dBm maximum
802.11g, 6Mbps : -88dBm maximum
802.11g, 54Mbps : -74dBm maximum
802.11a, 6Mbps : -88dBm maximum
802.11a, 54Mbps : -74dBm maximum
802.11n, MCS07 : -69dBm maximum

Technical Specifications

	802.11n, MCS15 : -66dBm maximum
	802.11ac, 1SS, MCS-0 : -86dBm maximum
	802.11ac, 1SS, MCS-9 : -61dBm maximum
	802.11ac, 2SS, MCS-0 : -83dBm maximum
	802.11ac, 2SS, MCS-9 : -58dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure
	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm
	Or
	Type 1630 : 2.3 x 16.0 x 30.0 mm
Weight	Type 2230 : 2.8g
	Or
	Type 1630 : 2g
Operating Voltage	3.3v +/- 9%
Temperature	Operating 14° to 158° F (-10° to 70° C)
	Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 90% (non-condensing)
	Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m)
	Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

Receiver Sensitivity Legacy

Modulation	0.01% BER	0.001% BER
GFSK	-80 dBm	-70 dBm
π/4-DQPSK	-80 dBm	-70 dBm
8DPSK	-80 dBm	-70 dBm

Technical Specifications

Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Range	Legacy Up to 33 ft (10 m) BLE Up to 99 ft (30 m)
Electrical Interface Bluetooth Software Supported Link Topology	USB 2.0 compliant Microsoft Windows Bluetooth Software Point to Point, Multipoint Pico Nets up to 7 slaves Full support of Bluetooth Security Provisions
Electrical Interface Bluetooth Software Supported Security	Microsoft Windows ACPI, and USB Bus Support Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Power Management Certifications	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Security Certifications Bluetooth Profiles Supported Power Management Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark Serial Port Profile (SPP) ¹ Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) ^{1,2} Generic Object Exchange Profile (GOEP) ^{1,2} Object Push Profile (OPP) ^{1,2} Hard Copy Cable Replacement (HCRP) ^{1,2} Personal Area Networking Profile (PAN) ^{1,2} Human Interface Device Profile (HID) ^{1,2} Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) Audio Video Remote Control Profile (AVRCP)
Certifications Bluetooth Profiles Supported	
Bluetooth V4.1/V4.2 support feature	V4.1: ESR5/6/7 compliant V4.2: ESR8 compliant, LE Secure Connection – Basic.

POWER

45W 2-prong AC Adapter	Dimensions	95mm x 40mm mm x 26.5 mm
	Input	90 to 265 VAC
		Input Efficiency '87.74% min at 115V/230V
		Input frequency range 47 to 63 Hz
		Input AC current 1.4 A at 90 VAC
	Output	Output power 45W
		DC output 19.5V
		Hold-up time 5 msec at 115 VAC input
		Output current limit <8.0A

Technical Specifications

	Connector	2 pin/non-grounded, mates with Smart ID DC connector
	Environmental Design	Operating temperature 32° to 95° F (0° to 35° C) Non-operating (storage) temperature -4° to 185° F (-20° to 85° C) Altitude 0 to 16,400 ft (0 to 5,000 m) Humidity 20% to 95% Storage Humidity 10% to 95%
	EMI and Safety Certifications	CE Mark - EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE * MTBF - over 200,000 hours at 25°C ambient condition.
45W Smart AC Adapter	Dimensions	3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)
	Weight	0.386 lb (175g) max
	Input	90 to 265 VAC
		Input Efficiency '87.74% min at 115V/230V
		Input frequency range 47 to 63 Hz
		Input AC current 1.4 A at 90 VAC
	Output	Output power 45W
		DC output 19.5V
		Hold-up time 5 msec at 115 VAC input
		Output current limit <8.0A
	Connector	3 pin/grounded, mates with interchangeable cords
	Environmental Design	Operating temperature 32° to 95° F (0° to 35° C) Non-operating (storage) temperature -4° to 185° F (-20° to 85° C) Altitude 0 to 16,400 ft (0 to 5,000 m) Humidity 20% to 95% Storage Humidity 10% to 95%
	EMI and Safety Certifications	*CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.
65W Smart EM AC Adapter	Dimensions	4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm)
	Weight	0.62 lb (290g) max
	Input	90 to 265 VAC
		Input Efficiency 87% min at 115 VAC
		Input frequency range 47 to 63 Hz
		Input AC current 1.7 A at 90 VAC
	Output	Output power 65W
		DC output 19.5V

Technical Specifications

		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11.0A
	Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	*CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.	
65W Slim Travel AC Adapter	Dimensions	120mm x 57.6mm x 16.7mm	
	Weight	0.55 lb (250g) max	
	Input	90 to 265 VAC	
		Input Efficiency	'87% min at 115V/230V
		Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC
	Output	Output power	65W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	< 11A
	Connector	3 pin/grounded, mates with Smart ID DC connector	
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	*CE Mark - EMC directives; *Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; * MTBF - over 200,000 hours at 25°C ambient condition.	
HP 6-Cell (45.6 Whr) polymer long life battery	Dimensions (H x W x L)	268mm x 108.1mm x 7.85mm	
	Weight	0.49lb+/-0.02lb (0.221kg+/-0.010kg)	
	Cells/Type	COSLIGHT CA295386HV/LISHEN SP295380SE	
	Energy	Voltage	11.4V

Technical Specifications

	Amp-hour capacity	4.02Ah	
	Watt-hour capacity	45.6Wh	
Temperature	Operating (Charging)	0°C~ 45°C	
	Operating (Discharging)	-10°C~ 60°C	
	Non-operating	-20°C~ 60°C	1 month
		-20°C~ 45°C	3 month
-20°C~ 30°C		6 month	
Battery Re-Charge Time	System in OFF or Standby Mode	System off within 3 hours	
Fuel Gauge LED	No		
Warranty	1 years		
Optional Travel Battery Available	No		

ENVIRONMENTAL

Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR®
- EPEAT <Gold> registered in the United States. See <http://www.epeat.net> for registration status in your country.

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.

Energy Consumption (in accordance with US ENERGY STAR® test method)

	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	8.06 W	8.13 W	8.01 W
Normal Operation (Long idle)	2.65 W	2.68 W	2.65 W
Sleep	0.37 W	0.38 W	0.37 W
Off	0.16 W	0.18 W	0.16 W

Note:

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*

	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	28 BTU/hr	28 BTU/hr	27 BTU/hr
Normal Operation (Long idle)	9 BTU/hr	9 BTU/hr	9 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr

Technical Specifications

PLASTIC/Polyester

20 g

The plastic packaging material contains at least 0% recycled content.
The corrugated paper packaging materials contains at least 80% recycled content.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at <http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf>):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging Usage

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

Technical Specifications

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

<http://www8.hp.com/us/en/hp-information/environment/ecolabels.html>

ISO 14001 certificates:

<http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842>

and

<http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf>

COUNTRY OF ORIGIN

China

Options and Accessories (sold separately and availability may vary by country)

Type	Description	Part Number
Cases	HP Business Slim Top Load (up to 14.1" x .75" thick)	H5M91AA
	HP Executive Leather Messenger (up to 14.0" x 1")	K0A31AA
	HP Slim Ultrabook Messenger (up to 15.6" x .88"/22/5mm)	F3W14AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
Stands	HP Adjustable Dual Monitor Stand	AW664AA#xxx
	HP Display and Notebook Stand II	E8G00AA#xxx
Docking	HP UltraSlim Docking Station	D9Y32AA
Input Devices	HP Wireless Mobile Mouse	H2L63AA
	HP X4000b Bluetooth Mouse	H3T50AA#xxx
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP USB Travel Mouse	G1K28AA
	HP Stylish Wireless KB/Mouse	H4B79AA
Adapters	USB Graphics Adapter (DBU PL)	NL571AA/AT
	HP Dock Connector to Ethernet/VGA Adapter	G7U78AA
	HP Wireless Display Adapter	J1V25AA#xxx
Power Adapters	HP 45W Smart AC Adapter (4.5mm) (PL MP only)	H6Y88AA#xxx
	HP 65W Smart AC Adapter (4.5mm)	H6Y89AA#xxx
	HP 65W Slim AC Adapter	H6Y82AA#xxx
	HP 65W Smart Travel AC Adapter	JOE43AA#xxx
Security	HP Keyed Cable Lock 10mm	T1A62AA
Storage	HP External USB Optical Drive	F2B56AA
Monitors	HP EliteDisplay S270c	
	HP EliteDisplay E272q	K1M38AA
	HP EliteDisplay E240c	M1P04AA
	HP EliteDisplay S140u	M1P00AA
	HP EliteDisplay S240ml	G8R65AA F4M47AA

Summary of Changes

Date of change	Version History		Description of change:
January 21, 2016	Version 1 to 2	Added	Environmental data
March 30, 2016	Version 2 to 3	Updated	TPM disclaimer
April 4, 2016	Version 3 to 4	Updated	Battery life MIL STD Testing Skype
May 25, 2016	Version 4 to 5	Added	HP Sure View
June 7, 2016	Version 5 to 6	Removed	HP DisplayPort to HDMI 1.4 Adapter F3W43AA HP DisplayPort to DVI Adapter F7W96AA HP DisplayPort to VGA Adapter F7W97AA
June 13, 2016	V6 to v7	Changed	Privacy Screen name.
June 17, 2016	V7 to V8	Added	14.0" diagonal LED backlight FHD Slim eDP SVA Anti-glare (1920 x 1080) Integrated Privacy Screen
		Changed	14.0" diagonal LED backlight FHD Slim eDP SVA (1920 x 1080) Touch Integrated Privacy Screen specs
December 2, 2016	V8 to 9	Update	Memory Section updated
January 31, 2017	V9 to 10	Update	Display Section updated

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